

# Contents

## Volume 67 Number 1 1982

I. S. Johnston, W. H. Hildemann Cellular Organization in the Marine Demosponge <i>Callyspongia diffusa</i>	1	A. R. Palmer, J. Szymanska, L. Thomas Prolonged Withdrawal: A Possible Predator Evasion Behavior in <i>Balanus glandula</i> (Crustacea: Cirripedia)	51
R. Nagabhushanam, U. D. Deshpande Reproductive Cycle of the Chiton <i>Chiton iatricus</i> and Environmental Control of Its Gonad Growth	9	U. Larsson, A. Hagström Fractionated Phytoplankton Primary Production, Exudate Release and Bacterial Production in a Baltic Eutrophication Gradient	57
J. Widdows, T. Bakke, B. L. Bayne, P. Donkin, D. R. Livingstone, D. M. Lowe, M. N. Moore, S. V. Evans, S. L. Moore Responses of <i>Mytilus edulis</i> on Exposure to the Water-Accommodated Fraction of North Sea Oil	15	D. W. Coats, J. F. Heinbokel A Study of Reproduction and Other Life Cycle Phenomena in Planktonic Protists Using an Acridine Orange Fluorescence Technique	71
V. Brock Does Displacement of Spawning Time Occur in the Sibling Species <i>Cerastoderma edule</i> and <i>C. lamarcki</i> ?	33	H. I. Moyano Magellanic Bryozoa: Some Ecological and Zoo- geographical Aspects	81
L. P. Madin Production, Composition and Sedimentation of Salp Faecal Pellets in Oceanic Waters	39	P. R. Greenblatt Small-Scale Horizontal Distributions of Zoo- plankton Taxa	97
M. V. Propp, M. R. Garber, V. I. Ryabuscko Unstable Processes in the Metabolic Rate Measurements in Flow-Through Systems	47		

## Volume 67 Number 2 1982

V. Bruni, T. Maugeri, V. Alonzo Lipolytic Activity of Marine Bacteria. Influence of NaCl and MgCl <sub>2</sub>	113	L. W. Harding, Jr., B. B. Prézelin, B. M. Sweeney, J. L. Cox Primary Production as Influenced by Diel Periodicity of Phytoplankton Photosynthesis	179
J. S. Pearse, D. J. Eernisse Photoperiodic Regulation of Gametogenesis and Gonadal Growth in the Sea Star <i>Pisaster ochraceus</i>	121	S. Behrens Yamada Growth and Longevity of the Mud Snail <i>Batillaria attramentaria</i>	187
P. Miramand, S. W. Fowler, J. C. Guary Comparative Study of Vanadium Biokinetics in Three Species of Echinoderms	127	G.-A. Paffenhöfer, J. R. Strickler, M. Alcaraz Suspension-Feeding by Herbivorous Calanoid Copepods: A Cinematographic Study	193
J. D. Thomson Metal Concentration Changes in Growing Pacific Oysters, <i>Crassostrea gigas</i> , Cultivated in Tasmania, Australia	135	G. Graf, W. Bengtsson, U. Diesner, R. Schulz, H. Theede Benthic Response to Sedimentation of a Spring Phytoplankton Bloom: Process and Budget	201
J. M. Kain (Jones) Morphology and Growth of the Giant Kelp <i>Macro- cystis pyrifera</i> in New Zealand and California	143	U Maung Myint, P. A. Tyler Effects of Temperature, Nutritive and Metal Stressors on the Reproductive Biology of <i>Mytilus edulis</i>	209
S. Crespo Surface Morphology of Dogfish ( <i>Scyliorhinus canicula</i> ) Gill Epithelium, and Surface Morpho- logical Changes Following Treatment with Zinc Sulphate: A Scanning Electron Microscope Study	159	P. G. Harrison Control of Microbial Growth and of Amphipod Grazing by Water-Soluble Compounds from Leaves of <i>Zostera marina</i>	225
L. W. Harding, Jr., B. B. Prézelin, B. M. Sweeney, J. L. Cox Diel Oscillations of the Photosynthesis-Irradiance (P-I) Relationship in Natural Assemblages of Phytoplankton	167	L. R. D'Abramo, C. E. Bordner, D. E. Conklin Relationship Between Dietary Phosphatidylcholine and Serum Cholesterol in the Lobster <i>Homarus</i> sp.	231
		Corrigenda	235

# Volume 67 Number 3 1982

M. H. Horn, S. N. Murray, T. W. Edwards Dietary Selectivity in the Field and Food Preferences in the Laboratory for Two Herbivorous Fishes ( <i>Cebidichthys violaceus</i> and <i>Xiphister mucosus</i> ) from a Temperate Intertidal Zone	237	A. Ben-Amotz, R. Fishler Induction of Sexual Reproduction and Resting Egg Production in <i>Brachionus plicatilis</i> by a Diet of Salt-Grown <i>Nannochloris oculata</i>	289
T. W. Edwards, M. H. Horn Assimilation Efficiency of a Temperate-Zone Intertidal Fish ( <i>Cebidichthys violaceus</i> ) Fed Diets of Macroalgae	247	P. K. Bienfang, P. J. Harrison, L. M. Quarmby Sinking Rate Response to Depletion of Nitrate, Phosphate and Silicate in Four Marine Diatoms	295
J. M. Navarro, J. E. Winter Ingestion Rate, Assimilation Efficiency and Energy Balance in <i>Mytilus chilensis</i> in Relation to Body Size and Different Algal Concentrations	255	S. S. Bell, L. D. Coen Investigations on Epibenthic Meiofauna I. Abundances on and Repopulation of the Tube-Caps of <i>Diopatra cuprea</i> (Polychaeta: Onuphidae) in a Subtropical System	303
G. D. Parry Reproductive Effort in Four Species of Intertidal Limpets	267	C. M. Burney, P. G. Davies, K. M. Johnson, J. McN. Sieburth Diel Relationships of Microbial Trophic Groups and <i>in situ</i> Dissolved Carbohydrate Dynamics in the Caribbean Sea	311
M. R. Landry, R. P. Hassett Estimating the Grazing Impact of Marine Micro-zooplankton	283	F. J. R. Taylor, R. E. Waters Spring Phytoplankton in the Subarctic North Pacific Ocean	323
		D. Schneider, G. L. Hunt Carbon Flux to Seabirds in Waters with Different Mixing Regimes in the Southeastern Bering Sea	337

